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ABSTRACT OF THE DISCLOSURE

Method and subsystem are provided for determining a sequence in which microstructures are to be processed at a laser-processing site by taking into account microstructures located near travel limits of a motor-driven stage. The method includes receiving reference data which represent locations of microstructures to be processed at the site and coalescing adjacent groups of microstructures into clusters of microstructures including edge clusters which contain the microstructures located near the travel limits of the motor-driven stage which moves the microstructures relative to a laser beam at the site. The method also includes dividing a cluster fragment from each edge cluster. The cluster fragments contain the microstructures located near the travel limits. The method then includes sorting the clusters and cluster fragments to obtain data which represent a substantially optimum sequence in which the microstructures are to be processed to increase throughput at the site.